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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/802,886	03/12/2001	Yuuichi Hirano	204612US2	5686	
22850	7590 03/11/2003				
•	PIVAK, MCCLELLA	EXAMINER			
	1940 DUKE STREET ALEXANDRIA, VA 22314			TRAN, THIEN F	
			ART UNIT	PAPER NUMBER	
			2811 DATE MAILED: 03/11/2003	16	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

	Application No.	Applicant(s)			
	09/802,886	HIRANO ET AL.			
Office Action Summary	Examiner	Art Unit			
•	Thien F Tran	2811			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a re oly within the statutory minimum of thirty will apply and will expire SIX (6) MONT te, cause the application to become AB/	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on					
	— · his action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice under	vance except for formal mat				
Disposition of Claims		,			
4) Claim(s) 1-20 is/are pending in the application	n.				
4a) Of the above claim(s) 2-20 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers					
9) The specification is objected to by the Examin					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the E	Adminion.				
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
· — •	gn priority under 35 U.S.C. §	3 119(a)-(d) or (i).			
a) ☐ All b) ☐ Some * c) ☐ None of:	t to a transmission				
1. Certified copies of the priority documer		unitantian No			
2. Certified copies of the priority documer					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C.	§ 119(e) (to a provisional application).			
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)			
S. Patent and Trademark Office		D			



Application/Control Number: 09/802,886

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02-27-2003 has been entered.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed, a semiconductor device using an SOI substrate. The claims are not directed to the method of manufacturing the device; therefore, the method of manufacturing the device should be removed from the title.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al. (USPN 6,118,152) in view of lida et al. (USPN 5,747,846).





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Yamaguchi et al. discloses a semiconductor device (Fig. 1) comprising an SOI substrate having a structure in which a semiconductor substrate1, an insulating layer 3 and a semiconductor layer (8, 4) are layered in this order; a partial isolation insulating film (13a) formed in a main surface of said semiconductor layer; a first semiconductor element (transistor Q1) formed in an element formation region defined by said partial isolation insulating film in said semiconductor layer; a ground line (19a, 17a); and a first complete isolation insulating film 6 formed throughout a portion directly below said ground line. Yamaguchi et al. does not explicitly disclose an interlayer insulating film formed on said first semiconductor element and said partial isolation insulating film. However, it is old and well known in the art as disclosed by lida et al. to form an interlayer insulating film on the first semiconductor element and the partial isolation insulating film before forming the ground line 19a so that the interlayer insulating film acts as a protection layer covering the transistor Q1 and isolating the gate electrode from being short with the ground line (19a, 17a) and preventing the gate electrode and the semiconductor layer from being exposed and contaminated with impurities during the fabrication process. Iida et al. discloses an interlayer insulating film 19 formed on a first semiconductor element (Transistor Ts) and a partial isolation insulating film 8. Therefore, forming the conventional feature, an interlayer insulating film on the first semiconductor element and the partial isolation film as a protection insulating layer would have been obvious modification.

Conclusion





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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thien F Tran whose telephone number is (703) 308-4108. The examiner can normally be reached on 8:30AM - 5:00PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

tt March 7, 2003

Thien Tran
Patent Examiner
Technology Center 2800